Selina Narain DTSC 630 Homework 1

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## Question 1

**The first ten days of rainfall amounts in NYC in 1996 are as follows: 0.1, 0.6, 33.8, 1.9, 9.6, 4.3, 33.7, 0.3, 0.0, 0.1**

**Read the above into a vector.**

rainfallAmount <- c(0.1, 0.6, 33.8, 1.9, 9.6, 4.3, 33.7, 0.3, 0.0, 0.1)  
print(rainfallAmount)

## [1] 0.1 0.6 33.8 1.9 9.6 4.3 33.7 0.3 0.0 0.1

**Calculate the mean and standard deviation of the rainfall amounts.**

mean(rainfallAmount)

## [1] 8.44

sd(rainfallAmount)

## [1] 13.66473

**Display the cumulative rainfall (“running total”) over the ten days (0.1, 0.7, 34.5, 36.4, ….)**

cumsum(rainfallAmount)

## [1] 0.1 0.7 34.5 36.4 46.0 50.3 84.0 84.3 84.3 84.4

**Find out the day when the rainfall was the highest, and day when it was the lowest.**

which.max(rainfallAmount)

## [1] 3

which.min(rainfallAmount)

## [1] 9

## Question 2

**Draw 20 random letters from the upper case alphabet, and sort them alphabetically.**

LETTERS

## [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S"  
## [20] "T" "U" "V" "W" "X" "Y" "Z"

uppercaseAlphabet <- sample(LETTERS, 20)  
print(uppercaseAlphabet)

## [1] "M" "G" "B" "R" "U" "H" "V" "F" "C" "E" "J" "Z" "S" "K" "L" "A" "Q" "P" "I"  
## [20] "N"

sort(uppercaseAlphabet)

## [1] "A" "B" "C" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "P" "Q" "R" "S" "U" "V"  
## [20] "Z"

## Question 3

**This exercise is about matrix, column means, histogram.**

**Construct a matrix with 10 columns and 10 rows with elements generated from uniform random numbers between 0 and 1.**

matrixNumbers = runif(10\*10)  
A <- matrix(matrixNumbers, 10, 10)  
print(A)

## [,1] [,2] [,3] [,4] [,5] [,6]  
## [1,] 0.160881739 0.06785282 0.2667534 0.067692333 0.6961992 0.3562457  
## [2,] 0.003827108 0.25238674 0.7444817 0.974715486 0.6261872 0.7720539  
## [3,] 0.249370098 0.01933009 0.3830876 0.603034703 0.4960355 0.1915092  
## [4,] 0.156194020 0.39835717 0.1850102 0.196864923 0.6303111 0.3582580  
## [5,] 0.856421194 0.17926931 0.2600266 0.615193937 0.6310857 0.5354649  
## [6,] 0.938850530 0.07567995 0.0770308 0.004886951 0.3253721 0.9078499  
## [7,] 0.922047326 0.57181876 0.4107051 0.007250732 0.0495558 0.2232718  
## [8,] 0.033125618 0.42671219 0.2905085 0.486585614 0.4350727 0.4274340  
## [9,] 0.600323809 0.18890538 0.4996058 0.910450711 0.2353450 0.9507497  
## [10,] 0.656502726 0.49175230 0.6106208 0.609589042 0.2561732 0.3021231  
## [,7] [,8] [,9] [,10]  
## [1,] 0.562006313 0.6042908 0.9606130 0.06472320  
## [2,] 0.991715951 0.9378430 0.8720319 0.68968577  
## [3,] 0.414547325 0.4720262 0.8975655 0.60466258  
## [4,] 0.697732393 0.4100039 0.5817412 0.54155702  
## [5,] 0.003900646 0.7935102 0.2268962 0.92768444  
## [6,] 0.632353633 0.5318301 0.5086140 0.04506997  
## [7,] 0.974953839 0.8473473 0.9318816 0.53026778  
## [8,] 0.713132860 0.5689935 0.1379570 0.05682722  
## [9,] 0.170864663 0.2133095 0.5312203 0.97904996  
## [10,] 0.119598429 0.3176678 0.7930437 0.14669444

**Calculate the 10 column means of the matrix, and the standard deviation of them.**

colMeans(A)

## [1] 0.4577544 0.2672065 0.3727831 0.4476264 0.4381337 0.5024960 0.5280806  
## [8] 0.5696822 0.6441564 0.4586222

sd(colMeans(A))

## [1] 0.1038429

**Now generate a matrix with 100 columns and 10 rows. Then calculate the 100 column means and plot a frequent diagram (or histogram).**

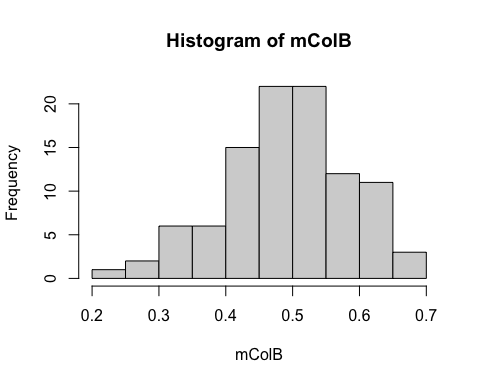
matrixNumbers = runif(100\*10)  
B <- matrix(matrixNumbers, 10, 100)  
print(B)

## [,1] [,2] [,3] [,4] [,5] [,6]  
## [1,] 0.93541748 0.8745632 0.6282118 0.24611642 0.72730389 0.37731889  
## [2,] 0.83800271 0.6876291 0.6626148 0.08191479 0.32253668 0.95733535  
## [3,] 0.22049434 0.7547542 0.7456450 0.93017328 0.71485743 0.39138940  
## [4,] 0.10028960 0.7835799 0.5152243 0.92778854 0.09991568 0.04250245  
## [5,] 0.45382531 0.5563309 0.6984406 0.14963039 0.14240638 0.85865518  
## [6,] 0.05788105 0.7515340 0.7837022 0.10087037 0.54806797 0.58892538  
## [7,] 0.41205680 0.8627130 0.7548719 0.64222753 0.32271643 0.20056408  
## [8,] 0.48618665 0.6102751 0.4456357 0.94391625 0.48979667 0.44434563  
## [9,] 0.88316787 0.3290482 0.6158228 0.22287656 0.97132013 0.44638726  
## [10,] 0.43913262 0.1548851 0.5157745 0.94636622 0.17824811 0.44389097  
## [,7] [,8] [,9] [,10] [,11] [,12]  
## [1,] 0.211509752 0.7975166 0.36033331 0.04570066 0.10608669 0.73181700  
## [2,] 0.962987992 0.7549006 0.03641905 0.56536326 0.81143126 0.81959736  
## [3,] 0.001138311 0.3024299 0.22063476 0.55879653 0.64268194 0.18444288  
## [4,] 0.485782274 0.7477390 0.35082356 0.92761767 0.30977113 0.50585758  
## [5,] 0.103525244 0.6712257 0.04844100 0.62427284 0.67920744 0.65174324  
## [6,] 0.554947872 0.6859774 0.37419222 0.50108203 0.16205602 0.03810163  
## [7,] 0.489070014 0.3373454 0.78995622 0.09155062 0.02902019 0.96500443  
## [8,] 0.653167936 0.4174746 0.76274802 0.42125749 0.89478417 0.87661913  
## [9,] 0.708444563 0.4993894 0.38034324 0.52898500 0.94236557 0.85686704  
## [10,] 0.042148037 0.7644861 0.45758308 0.53938791 0.07776148 0.87593833  
## [,13] [,14] [,15] [,16] [,17] [,18]  
## [1,] 0.8084880 0.3746906 0.66692900 0.774642937 0.05147183 0.0172134  
## [2,] 0.4848088 0.6444843 0.28725308 0.236081046 0.60481167 0.5102502  
## [3,] 0.4878299 0.9821982 0.15104130 0.814108740 0.02139784 0.2245725  
## [4,] 0.3171851 0.9326500 0.06761011 0.127940105 0.56130881 0.6979570  
## [5,] 0.8316799 0.5870272 0.66342654 0.185354547 0.55062767 0.5076505  
## [6,] 0.7212913 0.1494113 0.50043802 0.270850437 0.32013885 0.9189191  
## [7,] 0.5985098 0.6134259 0.81190383 0.964320975 0.33595224 0.5414814  
## [8,] 0.1580797 0.0845282 0.97613909 0.004791777 0.15944011 0.1353256  
## [9,] 0.4578579 0.3369279 0.11462890 0.896544982 0.29142270 0.8262049  
## [10,] 0.8012206 0.4076955 0.03559800 0.377096448 0.75570124 0.7817938  
## [,19] [,20] [,21] [,22] [,23] [,24]  
## [1,] 0.83378236 0.0001917793 0.46952019 0.01321222 0.95718301 0.1786210  
## [2,] 0.88485217 0.1893289553 0.29451361 0.86263473 0.05354741 0.5203751  
## [3,] 0.90830141 0.9395750377 0.62459904 0.07251812 0.74853515 0.7150992  
## [4,] 0.18307349 0.8047936247 0.02760415 0.90258753 0.75489064 0.8541548  
## [5,] 0.05395202 0.5994727791 0.76641692 0.36278102 0.98529495 0.7627690  
## [6,] 0.17471179 0.3021741174 0.76368767 0.44039924 0.19159720 0.2016397  
## [7,] 0.27922997 0.9511733775 0.41617846 0.38706431 0.32197925 0.8725995  
## [8,] 0.43194449 0.4419936500 0.60557694 0.60433904 0.01635356 0.6110268  
## [9,] 0.11759696 0.0150077371 0.66491945 0.28210195 0.57709090 0.5244640  
## [10,] 0.38699624 0.4865666199 0.51398004 0.22093944 0.37721887 0.1477063  
## [,25] [,26] [,27] [,28] [,29] [,30]  
## [1,] 0.8679908 0.9863768 0.02183685 0.4881904 0.901339854 0.132879943  
## [2,] 0.4506009 0.3977655 0.71886511 0.5124275 0.494183365 0.209052785  
## [3,] 0.1802757 0.7259220 0.99383096 0.5454255 0.248977969 0.232221949  
## [4,] 0.6110391 0.1702382 0.74169016 0.0732213 0.366201568 0.992188333  
## [5,] 0.7246564 0.2304286 0.24978366 0.4827252 0.742180221 0.391807618  
## [6,] 0.7669732 0.4319762 0.54128951 0.6333955 0.271098525 0.336378143  
## [7,] 0.3451123 0.8045094 0.06933293 0.7258961 0.418259607 0.126757857  
## [8,] 0.4510046 0.6622276 0.69305293 0.8677900 0.008375269 0.003427742  
## [9,] 0.8287624 0.2782879 0.56975371 0.4400169 0.895178297 0.528126600  
## [10,] 0.8590495 0.5597319 0.19973963 0.4671937 0.853378094 0.118854238  
## [,31] [,32] [,33] [,34] [,35] [,36]  
## [1,] 0.40401009 0.44334400 0.6537472 0.42006165 0.06970457 0.29419227  
## [2,] 0.87552386 0.01169479 0.9784313 0.24466124 0.49499276 0.06116707  
## [3,] 0.05199927 0.95683068 0.7570882 0.24843956 0.25625900 0.49986959  
## [4,] 0.49839094 0.30488218 0.9656621 0.14246658 0.38250605 0.57012124  
## [5,] 0.04632236 0.03371748 0.5286641 0.01069972 0.80400243 0.18140549  
## [6,] 0.11544548 0.43077485 0.2854797 0.76966188 0.13191029 0.82202981  
## [7,] 0.55925239 0.23360900 0.9555322 0.79585810 0.29480250 0.81189144  
## [8,] 0.54444229 0.77657381 0.1411362 0.29805224 0.28788026 0.09707849  
## [9,] 0.96084611 0.06145524 0.1191868 0.48666227 0.56741193 0.01162792  
## [10,] 0.44778607 0.45736934 0.9958652 0.79773917 0.45836824 0.89161238  
## [,37] [,38] [,39] [,40] [,41] [,42] [,43]  
## [1,] 0.41873763 0.6819657 0.07040339 0.87341225 0.7719764 0.9434994 0.4543622  
## [2,] 0.43713430 0.6140954 0.39331552 0.81092498 0.2478511 0.5152754 0.1002301  
## [3,] 0.61911779 0.1974681 0.11970094 0.03927681 0.3172458 0.4646421 0.6558148  
## [4,] 0.36240929 0.7786024 0.93122190 0.67421370 0.8958838 0.1512664 0.7719876  
## [5,] 0.64166236 0.2563120 0.78474758 0.72471258 0.5088412 0.5749023 0.8793648  
## [6,] 0.47986659 0.5175810 0.38056038 0.34543168 0.4774169 0.5926523 0.6616672  
## [7,] 0.61166476 0.6891159 0.74007122 0.59367546 0.3819048 0.1850984 0.1144872  
## [8,] 0.14481593 0.2216297 0.68489057 0.59644334 0.2946933 0.9194561 0.4314413  
## [9,] 0.04633724 0.3060341 0.26656308 0.91538256 0.2937545 0.1055412 0.3500427  
## [10,] 0.41723687 0.7442527 0.24926463 0.24027124 0.6685253 0.2068606 0.1389254  
## [,44] [,45] [,46] [,47] [,48] [,49] [,50]  
## [1,] 0.77103720 0.6590902 0.3395120 0.4051952 0.01760596 0.36110555 0.4052639  
## [2,] 0.70783480 0.3058942 0.5204694 0.2590025 0.44622647 0.83839181 0.8831134  
## [3,] 0.66698323 0.8740063 0.5301991 0.6266580 0.08410534 0.73973344 0.4622528  
## [4,] 0.14999562 0.4219942 0.2316541 0.9408334 0.71137016 0.81462961 0.8868319  
## [5,] 0.28793517 0.4709356 0.7996463 0.2646441 0.86980021 0.70060646 0.3275109  
## [6,] 0.88382330 0.8848964 0.8953644 0.4615759 0.97506406 0.35176071 0.2082096  
## [7,] 0.87268151 0.4085099 0.6844273 0.1043078 0.05931321 0.03180307 0.8953345  
## [8,] 0.06457226 0.6497803 0.6966061 0.9243537 0.60698235 0.66162328 0.5045072  
## [9,] 0.20724826 0.1007177 0.1641141 0.4103718 0.11506307 0.90415575 0.3725714  
## [10,] 0.05356755 0.9002576 0.7438612 0.0264516 0.63999945 0.98618357 0.1412276  
## [,51] [,52] [,53] [,54] [,55] [,56]  
## [1,] 0.1949601374 0.233774835 0.1010381 0.7548463 0.7233268 0.84258859  
## [2,] 0.0616757832 0.009709072 0.1429170 0.8202143 0.4378110 0.85298131  
## [3,] 0.1581007345 0.590760059 0.0662551 0.4743846 0.8753003 0.13096820  
## [4,] 0.2010633326 0.496733420 0.8053067 0.5975641 0.8702424 0.08897636  
## [5,] 0.0001781716 0.666250807 0.2489329 0.1797138 0.8742835 0.55567780  
## [6,] 0.6433118370 0.669204172 0.2255521 0.4548248 0.2681775 0.16616044  
## [7,] 0.6169741717 0.516531073 0.6669989 0.7818738 0.3316960 0.24739696  
## [8,] 0.1223636921 0.587295511 0.4075544 0.5978466 0.3257665 0.28733061  
## [9,] 0.6674897799 0.590210160 0.2497371 0.2880355 0.5363552 0.10655741  
## [10,] 0.0497103247 0.353024056 0.8725072 0.6375691 0.5364765 0.81139076  
## [,57] [,58] [,59] [,60] [,61] [,62] [,63]  
## [1,] 0.6666728 0.16155835 0.3196489 0.40250181 0.9510257 0.28819899 0.2198470  
## [2,] 0.6060679 0.12200718 0.3290255 0.32326392 0.1195309 0.50777045 0.4668996  
## [3,] 0.5020533 0.29901436 0.7235452 0.42908065 0.3146838 0.11089325 0.7404560  
## [4,] 0.6919102 0.03430955 0.3071871 0.90160736 0.7467926 0.88229728 0.8771940  
## [5,] 0.3770766 0.01697444 0.9758919 0.83936586 0.1700257 0.33043000 0.6663013  
## [6,] 0.9071825 0.57439712 0.3035910 0.08668221 0.5818755 0.08935487 0.4070159  
## [7,] 0.4211694 0.05684555 0.2561138 0.49194237 0.5025553 0.63946249 0.7440351  
## [8,] 0.8978898 0.05533954 0.5335385 0.79395273 0.4027455 0.42801026 0.9320827  
## [9,] 0.4347654 0.05695609 0.8818110 0.90550400 0.6646360 0.04085140 0.9200305  
## [10,] 0.1001336 0.87604300 0.4716860 0.24360287 0.6438715 0.83729444 0.2425964  
## [,64] [,65] [,66] [,67] [,68] [,69] [,70]  
## [1,] 0.9202813 0.06985236 0.5659675 0.64849668 0.43915032 0.7192571 0.89006548  
## [2,] 0.7342656 0.65565795 0.8516388 0.48513678 0.40190669 0.9921286 0.25930451  
## [3,] 0.1808681 0.19792442 0.6910777 0.09797128 0.68974148 0.5709357 0.32939254  
## [4,] 0.8089531 0.71293153 0.5866875 0.03140684 0.66707054 0.3597285 0.06572304  
## [5,] 0.7782924 0.12975301 0.7592430 0.91535537 0.59474080 0.8840657 0.03969980  
## [6,] 0.3048400 0.76312854 0.5012478 0.80130998 0.85720554 0.4655080 0.01022594  
## [7,] 0.3586369 0.97377358 0.3723751 0.32936878 0.09193556 0.4808349 0.98987918  
## [8,] 0.8044159 0.38015007 0.1698511 0.09308165 0.99422499 0.3710147 0.31583800  
## [9,] 0.7148029 0.90268556 0.1578657 0.31751515 0.48670598 0.5611567 0.18627575  
## [10,] 0.7351531 0.90327494 0.7407362 0.71149787 0.26291149 0.1593099 0.60421053  
## [,71] [,72] [,73] [,74] [,75] [,76] [,77]  
## [1,] 0.74664779 0.13199129 0.60078496 0.5217233 0.8732591 0.3861569 0.7876619  
## [2,] 0.79405261 0.04688847 0.23559435 0.2149325 0.6326261 0.9087749 0.5156528  
## [3,] 0.39845628 0.98071876 0.57110529 0.2829343 0.6228541 0.2235382 0.6161064  
## [4,] 0.66782134 0.33070663 0.75213532 0.9145248 0.2597001 0.9954070 0.9317822  
## [5,] 0.42145739 0.09365124 0.90599991 0.8233628 0.1579585 0.1421393 0.6940144  
## [6,] 0.44551030 0.25338991 0.75760667 0.5338166 0.1123105 0.4664497 0.4158722  
## [7,] 0.01534837 0.41072556 0.01426625 0.9902711 0.2395078 0.9599418 0.5047254  
## [8,] 0.26158251 0.43218815 0.66018237 0.6717497 0.6561268 0.2301675 0.3754111  
## [9,] 0.60268613 0.31894996 0.09847616 0.9982380 0.3325993 0.7344378 0.6566475  
## [10,] 0.47774834 0.07567710 0.81580822 0.6534343 0.4790423 0.2366152 0.5226114  
## [,78] [,79] [,80] [,81] [,82] [,83]  
## [1,] 0.16064784 0.8120144 0.8400242 0.4211079 0.17721777 0.07374176  
## [2,] 0.50817981 0.8724420 0.9160005 0.5439931 0.64601872 0.35371920  
## [3,] 0.72693308 0.5923424 0.5501693 0.5818970 0.26410586 0.18574760  
## [4,] 0.98906460 0.5062057 0.2676330 0.5857741 0.95555931 0.16513831  
## [5,] 0.99161993 0.1586811 0.6770018 0.1734079 0.04837077 0.15170074  
## [6,] 0.39228872 0.7440070 0.5569669 0.7079098 0.12893402 0.88457960  
## [7,] 0.61492811 0.7506959 0.9004595 0.4887318 0.69957590 0.86255204  
## [8,] 0.10431498 0.6285236 0.6362966 0.6832277 0.94238181 0.64306417  
## [9,] 0.33670901 0.4838591 0.3325742 0.3333725 0.32714134 0.80925392  
## [10,] 0.08198273 0.9320061 0.9067854 0.8721404 0.64925098 0.01614382  
## [,84] [,85] [,86] [,87] [,88] [,89]  
## [1,] 0.527497185 0.22541701 0.41868751 0.14120396 0.1969221 0.5871870  
## [2,] 0.007623015 0.05256145 0.16552207 0.50321516 0.5516770 0.5188298  
## [3,] 0.794292762 0.02406751 0.03574398 0.25639216 0.7383154 0.4728514  
## [4,] 0.867472969 0.37624287 0.15387158 0.44819468 0.6283379 0.7594975  
## [5,] 0.364466958 0.51727212 0.15875712 0.65205958 0.6568452 0.6156298  
## [6,] 0.711776058 0.75793289 0.72824597 0.09445833 0.3528908 0.3788219  
## [7,] 0.011261213 0.55769004 0.19559343 0.34135473 0.7967844 0.7832509  
## [8,] 0.939344773 0.49628471 0.75430027 0.04570692 0.3118521 0.5346879  
## [9,] 0.086691645 0.84018945 0.21776950 0.61540305 0.3221830 0.6139138  
## [10,] 0.575051403 0.46337117 0.13358103 0.27996290 0.2268072 0.3805577  
## [,90] [,91] [,92] [,93] [,94] [,95]  
## [1,] 0.27031823 0.43893152 0.64528142 0.6952239 0.8143225 0.56118150  
## [2,] 0.28998215 0.90658049 0.35321196 0.4076402 0.4910884 0.08906965  
## [3,] 0.09835297 0.31644558 0.10502584 0.2794598 0.4211539 0.85773162  
## [4,] 0.06094272 0.97723552 0.57540442 0.9827954 0.9764805 0.78616184  
## [5,] 0.99588681 0.77857853 0.01571528 0.8805679 0.1141243 0.35687223  
## [6,] 0.88959153 0.22347110 0.97608733 0.6202455 0.8231920 0.90694903  
## [7,] 0.08928751 0.02395303 0.83027184 0.3151200 0.7434639 0.03496165  
## [8,] 0.31370503 0.66836406 0.52568847 0.3948143 0.2539020 0.28354386  
## [9,] 0.03526615 0.97599824 0.59507531 0.7639453 0.6247578 0.80328873  
## [10,] 0.44645566 0.02003818 0.39272844 0.8599840 0.9203445 0.65317048  
## [,96] [,97] [,98] [,99] [,100]  
## [1,] 0.37060754 0.322364543 0.54027702 0.27929825 0.8540849  
## [2,] 0.87800107 0.674853405 0.01298439 0.89440994 0.1626320  
## [3,] 0.73156288 0.025711652 0.27759482 0.01181612 0.7524437  
## [4,] 0.50406013 0.538323073 0.21817388 0.55912880 0.3291357  
## [5,] 0.34316684 0.269389244 0.44986888 0.03332203 0.6636093  
## [6,] 0.04783265 0.808113323 0.12851298 0.01481787 0.4177862  
## [7,] 0.32478352 0.009561084 0.12641439 0.92356540 0.9550364  
## [8,] 0.42511436 0.884000449 0.19502931 0.26431899 0.5141283  
## [9,] 0.77587175 0.436508921 0.99980825 0.18350550 0.7312665  
## [10,] 0.73078097 0.314944509 0.25075391 0.30084433 0.3084930

mColB <- colMeans(B)  
print(mColB)

## [1] 0.4826454 0.6365313 0.6365943 0.5191880 0.4517169 0.4751315 0.4212722  
## [8] 0.5978485 0.3781474 0.4804014 0.4655166 0.6505989 0.5666951 0.5113039  
## [15] 0.4274968 0.4651732 0.3652273 0.5161368 0.4254441 0.4730278 0.5146996  
## [22] 0.4148578 0.4983691 0.5388455 0.6085465 0.5247464 0.4799175 0.5236282  
## [29] 0.5199173 0.3071695 0.4504019 0.3710251 0.6380793 0.4214302 0.3747838  
## [36] 0.4240996 0.4178983 0.5007057 0.4620739 0.5813745 0.4858093 0.4659194  
## [43] 0.4558323 0.4665679 0.5676082 0.5605854 0.4423394 0.4525530 0.6389993  
## [50] 0.5086823 0.2715828 0.4713493 0.3786799 0.5586873 0.5779436 0.4090028  
## [57] 0.5604922 0.2253445 0.5102039 0.5417504 0.5097743 0.4154563 0.6216459  
## [64] 0.6340509 0.5689132 0.5396690 0.4431140 0.5485593 0.5563940 0.3690615  
## [71] 0.4831311 0.3074887 0.5411960 0.6604987 0.4365985 0.5283628 0.6020485  
## [78] 0.4906669 0.6480777 0.6583912 0.5391562 0.4838556 0.4145641 0.4885478  
## [85] 0.4311029 0.2962072 0.3377951 0.4782615 0.5645228 0.3489789 0.5329596  
## [92] 0.5014490 0.6199796 0.6182830 0.5332931 0.5131782 0.4283770 0.3199418  
## [99] 0.3465027 0.5688616

hist(mColB)



**What shape of the histogram do you expect? Experiment the above with another matrix of 1000 columns and 10 rows.**

The expected shape of the histogram would be a bell curve which would represent a normal distribution.

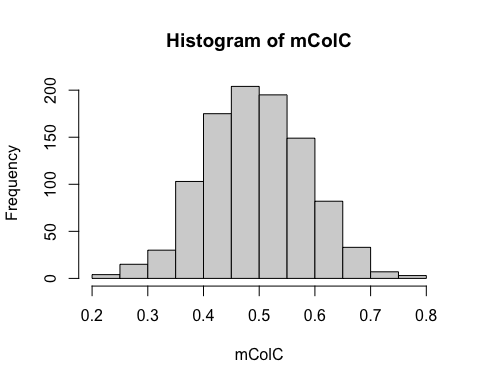
matrixNumbers = runif(1000\*10)  
C <- matrix(matrixNumbers, 10, 1000)  
print(C)

## [,1] [,2] [,3] [,4] [,5] [,6] [,7]  
## [1,] 0.78764231 0.71223044 0.89497469 0.6800835 0.66718904 0.2129168 0.6408772  
## [2,] 0.18290310 0.26186310 0.20660035 0.3313654 0.91641253 0.8745181 0.7437110  
## [3,] 0.94083560 0.44811063 0.94879270 0.5047664 0.32051028 0.7079040 0.8217583  
## [4,] 0.74845866 0.98094888 0.05029517 0.3939405 0.76543115 0.4559540 0.1431703  
## [5,] 0.04053543 0.07854687 0.57443254 0.1762932 0.01706335 0.4850716 0.4030385  
## [6,] 0.90721954 0.40536070 0.86902615 0.4386764 0.86674828 0.3287271 0.1189461  
## [7,] 0.07420269 0.39636071 0.56947811 0.7225476 0.68724539 0.3361604 0.6637174  
## [8,] 0.21240244 0.95383890 0.21772339 0.7417956 0.24769597 0.3799756 0.2224210  
## [9,] 0.38017177 0.14447571 0.89456855 0.6597033 0.77925528 0.9966212 0.2301237  
## [10,] 0.21576297 0.70334648 0.48515823 0.1345814 0.20661372 0.4386334 0.9585340  
## [,8] [,9] [,10] [,11] [,12] [,13] [,14]  
## [1,] 0.07077232 0.0145827 0.5197732 0.38064403 0.36310330 0.70398753 0.1782391  
## [2,] 0.94574719 0.8322547 0.6843833 0.21802384 0.16203372 0.44309039 0.6404797  
## [3,] 0.03180733 0.7864199 0.7519559 0.41837743 0.28034261 0.04144503 0.5761257  
## [4,] 0.27529473 0.1717673 0.2401067 0.30643357 0.04235625 0.99025150 0.7400878  
## [5,] 0.17505044 0.6559373 0.2696060 0.97284433 0.43032442 0.62036456 0.8559051  
## [6,] 0.96340652 0.1584746 0.6681706 0.79736454 0.41807473 0.63257409 0.3846896  
## [7,] 0.65440551 0.4396398 0.3212165 0.01015862 0.14681113 0.13971713 0.6065994  
## [8,] 0.44993042 0.8903944 0.1739438 0.58027966 0.12587511 0.11972719 0.7573674  
## [9,] 0.93457911 0.8752418 0.4082256 0.69186345 0.01385428 0.60535427 0.1883632  
## [10,] 0.34236562 0.1214630 0.9833683 0.67646567 0.77553785 0.21098294 0.9985588  
## [,15] [,16] [,17] [,18] [,19] [,20] [,21]  
## [1,] 0.1136469 0.3148007 0.5731402 0.10991716 0.5240375 0.4133636 0.1235295  
## [2,] 0.9264252 0.3219141 0.2247542 0.05833666 0.4147264 0.8083826 0.3646037  
## [3,] 0.3612832 0.4217152 0.2226672 0.19707578 0.7178628 0.4496503 0.7994555  
## [4,] 0.3871181 0.1066754 0.7729884 0.13014981 0.6446759 0.4849274 0.9670219  
## [5,] 0.5924081 0.2591836 0.5144631 0.50981531 0.1379451 0.6140485 0.4310559  
## [6,] 0.5103129 0.6600028 0.5505838 0.63221301 0.9376627 0.4592333 0.4973135  
## [7,] 0.7865906 0.5522333 0.0894108 0.55589946 0.5500876 0.3576704 0.8485617  
## [8,] 0.7709192 0.8734743 0.4845312 0.97908095 0.7533601 0.3969641 0.3930136  
## [9,] 0.9334379 0.1293185 0.5889462 0.06178882 0.2141385 0.7215873 0.6247506  
## [10,] 0.8558674 0.8318165 0.6765808 0.08905542 0.2714858 0.5654210 0.1287388  
## [,22] [,23] [,24] [,25] [,26] [,27]  
## [1,] 0.489297979 0.1506357 0.3447177 0.04565078 0.569308516 0.41740793  
## [2,] 0.334482643 0.2665924 0.4606711 0.50943080 0.454616376 0.60130258  
## [3,] 0.944995692 0.2632833 0.7603927 0.05692719 0.912617178 0.36431268  
## [4,] 0.702103273 0.6470437 0.1518912 0.59232193 0.008855058 0.26557714  
## [5,] 0.345140647 0.2197094 0.1547477 0.72329511 0.116168641 0.37717238  
## [6,] 0.002451429 0.7407942 0.8548949 0.90636681 0.636448520 0.68932907  
## [7,] 0.310488092 0.3801696 0.1305290 0.12597105 0.851138969 0.06150647  
## [8,] 0.611668277 0.1249038 0.9625700 0.48858390 0.114166210 0.64757337  
## [9,] 0.776306970 0.2727509 0.2149708 0.01097583 0.268536707 0.85675083  
## [10,] 0.459897517 0.4179484 0.5836711 0.05351113 0.165216154 0.97685002  
## [,28] [,29] [,30] [,31] [,32] [,33] [,34]  
## [1,] 0.6663690 0.03971904 0.3216656 0.1696213 0.03323449 0.1464234 0.1716589  
## [2,] 0.4475243 0.53573956 0.3659021 0.2088277 0.36008656 0.9623610 0.8728774  
## [3,] 0.9997130 0.86262664 0.8638937 0.2070784 0.02116896 0.4264672 0.6066526  
## [4,] 0.6581078 0.74866013 0.8054772 0.8100188 0.03788171 0.5023381 0.9382209  
## [5,] 0.5915320 0.16068481 0.6862619 0.2243861 0.41359495 0.3067323 0.1604997  
## [6,] 0.7847943 0.63394778 0.2291503 0.3560874 0.25713006 0.5011517 0.1722447  
## [7,] 0.8513239 0.95063615 0.7920083 0.7284221 0.23278629 0.3197929 0.5101925  
## [8,] 0.3711528 0.19043176 0.5123519 0.8338283 0.72079102 0.8493531 0.8480918  
## [9,] 0.8242661 0.85821777 0.5996189 0.4264586 0.57861959 0.6843709 0.9916153  
## [10,] 0.1479498 0.68382584 0.1393628 0.1279704 0.88922047 0.6625225 0.2588409  
## [,35] [,36] [,37] [,38] [,39] [,40]  
## [1,] 0.17346360 0.3513365 0.428805404 0.25049825 0.02116696 0.79257421  
## [2,] 0.45161576 0.5882492 0.007454094 0.50900222 0.55798733 0.51947739  
## [3,] 0.94420787 0.9103546 0.067822683 0.08222638 0.05325779 0.52939335  
## [4,] 0.38174845 0.7375251 0.811196692 0.03224916 0.41479086 0.41169432  
## [5,] 0.76344823 0.4453569 0.070116160 0.35875733 0.97415206 0.91867213  
## [6,] 0.07479931 0.2120857 0.537429758 0.04582079 0.85014290 0.17566504  
## [7,] 0.88698250 0.8825781 0.682794530 0.92758077 0.71379795 0.70029682  
## [8,] 0.41142364 0.8039141 0.734542325 0.93826342 0.53804347 0.02553019  
## [9,] 0.35647782 0.3830251 0.248240961 0.15968796 0.66081969 0.64901839  
## [10,] 0.20740867 0.6433014 0.682789537 0.89029920 0.98160980 0.85880647  
## [,41] [,42] [,43] [,44] [,45] [,46]  
## [1,] 0.26894693 0.7323842 0.84932685 0.5771169 0.02082032 0.65510388  
## [2,] 0.89990458 0.3923225 0.93412049 0.3865591 0.29286553 0.75583479  
## [3,] 0.20274020 0.6867392 0.60740427 0.4847782 0.49775555 0.33376877  
## [4,] 0.20209289 0.7329475 0.35902878 0.1131249 0.38298268 0.08362939  
## [5,] 0.87138676 0.7119396 0.86830207 0.5733619 0.10016821 0.60097461  
## [6,] 0.39779388 0.3153838 0.69082607 0.6136595 0.32180118 0.16589244  
## [7,] 0.78831837 0.0887457 0.33192898 0.9197349 0.50140277 0.14820983  
## [8,] 0.63789714 0.7738974 0.34714650 0.3156100 0.99013202 0.88784869  
## [9,] 0.42630868 0.6306065 0.06587709 0.8961031 0.55920985 0.39284505  
## [10,] 0.02103727 0.6886798 0.26642765 0.6529553 0.84645669 0.24727409  
## [,47] [,48] [,49] [,50] [,51] [,52]  
## [1,] 0.85804801 0.67623950 0.10983712 0.63370761 0.10914852 0.79644460  
## [2,] 0.53484203 0.18666524 0.95717060 0.96072092 0.32639508 0.65383174  
## [3,] 0.71442362 0.77030453 0.20181085 0.61436524 0.47902213 0.90745002  
## [4,] 0.42630829 0.62750115 0.09615731 0.76920041 0.26640422 0.17931954  
## [5,] 0.39888345 0.69996050 0.63540528 0.76449972 0.41058520 0.04450606  
## [6,] 0.31874353 0.77327277 0.65584802 0.54282625 0.68876438 0.53707543  
## [7,] 0.43344629 0.16918417 0.76737848 0.05241978 0.43619931 0.43298201  
## [8,] 0.42265821 0.01410281 0.48962749 0.30298335 0.12757201 0.11277514  
## [9,] 0.09705451 0.79896457 0.30799040 0.42528644 0.66775821 0.78257227  
## [10,] 0.97927771 0.18687249 0.13483489 0.33943455 0.06275892 0.19600248  
## [,53] [,54] [,55] [,56] [,57] [,58]  
## [1,] 0.69207907 0.6847299 0.81340703 0.9491027 0.458743232 0.47863134  
## [2,] 0.66136101 0.4729556 0.68776000 0.9913063 0.715227838 0.01017833  
## [3,] 0.01000138 0.1553710 0.49425801 0.8256276 0.963013992 0.43890899  
## [4,] 0.67567329 0.9474080 0.20804243 0.5840712 0.871326429 0.25761332  
## [5,] 0.38822219 0.5718005 0.22983830 0.6093303 0.489234921 0.98213277  
## [6,] 0.51772527 0.9034051 0.04928357 0.3312935 0.008213834 0.23304825  
## [7,] 0.92135988 0.3358106 0.76894216 0.6621095 0.798887233 0.52515983  
## [8,] 0.30506271 0.3566353 0.46480174 0.9760186 0.382263198 0.94739305  
## [9,] 0.84886010 0.8996645 0.52348525 0.2002961 0.062870761 0.18872826  
## [10,] 0.06094624 0.7968965 0.06195392 0.5352310 0.960124063 0.53986909  
## [,59] [,60] [,61] [,62] [,63] [,64]  
## [1,] 0.50250855 0.18182988 0.79605016 0.8261340 0.01918473 0.7374187  
## [2,] 0.42344411 0.91427830 0.49372413 0.8376922 0.53928874 0.4295345  
## [3,] 0.65483765 0.43575854 0.64259909 0.1148302 0.42011597 0.3037145  
## [4,] 0.54190198 0.37075062 0.17996502 0.5156293 0.33969832 0.7176519  
## [5,] 0.02806039 0.08604098 0.90410484 0.1711018 0.64886730 0.4984890  
## [6,] 0.32267206 0.05838313 0.89150890 0.7292569 0.48523939 0.7205486  
## [7,] 0.24967314 0.61160581 0.52733571 0.4679816 0.23691921 0.4005984  
## [8,] 0.73693162 0.44803363 0.95080780 0.9223293 0.80984959 0.6825762  
## [9,] 0.19491452 0.80724879 0.06931984 0.3503753 0.61265437 0.4397670  
## [10,] 0.37654756 0.59336856 0.68340302 0.2584260 0.28494955 0.9297673  
## [,65] [,66] [,67] [,68] [,69] [,70]  
## [1,] 0.42893791 0.4901026 0.04880298 0.50385676 0.35405452 0.83339886  
## [2,] 0.51249599 0.8199767 0.78182968 0.69118545 0.28024889 0.33821722  
## [3,] 0.60315912 0.8037382 0.89752628 0.07260784 0.22084985 0.23198838  
## [4,] 0.53345257 0.3430566 0.25347916 0.50488389 0.50881546 0.70357412  
## [5,] 0.06442643 0.5777550 0.39737499 0.62779612 0.05179141 0.28583362  
## [6,] 0.32597740 0.6792840 0.01363030 0.19628941 0.10240382 0.43422167  
## [7,] 0.41945421 0.9173510 0.66137541 0.27496584 0.47903709 0.41148183  
## [8,] 0.40577225 0.6328185 0.70406695 0.39449136 0.93640758 0.07933615  
## [9,] 0.38138430 0.2185249 0.51608679 0.19021484 0.56972152 0.61141365  
## [10,] 0.99937576 0.5507630 0.84149518 0.09044365 0.59445986 0.56241688  
## [,71] [,72] [,73] [,74] [,75] [,76]  
## [1,] 0.53627218 0.52880631 0.041384947 0.004723595 0.66022913 0.81866774  
## [2,] 0.83489609 0.32361720 0.862407606 0.255283083 0.94518469 0.17143372  
## [3,] 0.26305989 0.49478451 0.729425015 0.223010042 0.88032545 0.01108325  
## [4,] 0.89401112 0.91092643 0.375536703 0.944300222 0.27956817 0.67820995  
## [5,] 0.61410132 0.03968269 0.228801620 0.710465353 0.03382168 0.87860543  
## [6,] 0.48409421 0.92725873 0.764278767 0.545743593 0.34450568 0.16023699  
## [7,] 0.05270009 0.00579413 0.306203569 0.973203314 0.27706449 0.33228673  
## [8,] 0.95279407 0.27986091 0.482826425 0.740647389 0.85732169 0.97352572  
## [9,] 0.25674518 0.28312997 0.004231835 0.083586307 0.69489706 0.70180445  
## [10,] 0.29272403 0.18913543 0.069284101 0.712199195 0.07199397 0.19385481  
## [,77] [,78] [,79] [,80] [,81] [,82] [,83]  
## [1,] 0.70923327 0.2959843 0.8756675 0.79515684 0.80240923 0.6519341 0.15789412  
## [2,] 0.39067865 0.3135343 0.7613941 0.34453813 0.47317528 0.8760272 0.82645453  
## [3,] 0.21089433 0.2422531 0.6970031 0.58566877 0.00880336 0.8014829 0.29008029  
## [4,] 0.64374040 0.1037115 0.5632060 0.35202254 0.08241243 0.1230560 0.20992444  
## [5,] 0.11380097 0.1977572 0.5215760 0.56335179 0.34234979 0.5419639 0.80759008  
## [6,] 0.04012816 0.1401178 0.6021747 0.83136759 0.94166877 0.5182416 0.49825078  
## [7,] 0.76390990 0.7497547 0.1281599 0.53289017 0.27211520 0.3184658 0.89758714  
## [8,] 0.18877506 0.9199803 0.6231113 0.02866331 0.41865578 0.4538857 0.03064714  
## [9,] 0.04687613 0.4449400 0.7940106 0.22104955 0.21020160 0.8052310 0.70741520  
## [10,] 0.37547938 0.1225280 0.9009139 0.07913266 0.05859796 0.9556288 0.83023016  
## [,84] [,85] [,86] [,87] [,88] [,89] [,90]  
## [1,] 0.5649400 0.91371263 0.8201455 0.60125582 0.2405344 0.5397567 0.4835789  
## [2,] 0.7481248 0.02937920 0.0152442 0.05163142 0.5274869 0.1905843 0.2600060  
## [3,] 0.6046532 0.02202576 0.1844672 0.18289029 0.1366095 0.3901348 0.7072999  
## [4,] 0.3012684 0.41231826 0.5109971 0.55679508 0.5677973 0.5328864 0.9716873  
## [5,] 0.9510283 0.78891573 0.7865824 0.19943838 0.2536052 0.2825832 0.9202889  
## [6,] 0.8222293 0.45610696 0.5194872 0.33468728 0.5462407 0.2980991 0.8732087  
## [7,] 0.8340446 0.23888694 0.5556249 0.42426563 0.6888839 0.4198542 0.1813312  
## [8,] 0.2197837 0.21726902 0.4106681 0.64512685 0.8710257 0.8522137 0.8105025  
## [9,] 0.8714681 0.10156470 0.1800801 0.30032941 0.6638809 0.9378330 0.2706774  
## [10,] 0.6467068 0.59526646 0.9964594 0.59092697 0.9626739 0.4133009 0.2284585  
## [,91] [,92] [,93] [,94] [,95] [,96]  
## [1,] 0.1070967 0.3819808 0.13739587 0.12861454 0.007696454 0.56263191  
## [2,] 0.6290193 0.6398195 0.27266153 0.44483284 0.305048384 0.12586088  
## [3,] 0.8618967 0.8102217 0.63646969 0.36123208 0.331429115 0.74749039  
## [4,] 0.7087931 0.2932108 0.65782601 0.19293365 0.905437557 0.08077621  
## [5,] 0.8533717 0.8261589 0.68089977 0.29773179 0.080294954 0.38436133  
## [6,] 0.3068916 0.6372731 0.33865363 0.10164079 0.281884936 0.03625656  
## [7,] 0.6401982 0.2496681 0.06133673 0.06015207 0.744599973 0.69100231  
## [8,] 0.5523475 0.3733574 0.84255583 0.25302321 0.923309418 0.37222235  
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## [5,] 0.89376706 0.02991565 0.06444425 0.2052567 0.66096741 0.4696509  
## [6,] 0.22467112 0.65116365 0.24998351 0.8392814 0.06027052 0.4612014  
## [7,] 0.56762464 0.07021764 0.50327218 0.7557370 0.13517717 0.2692710  
## [8,] 0.31856738 0.21879805 0.44866463 0.8860925 0.44566220 0.4116831  
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## [5,] 0.43456877 0.5396273 0.28282401 0.453540612 0.93832394 0.5230408  
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## [7,] 0.27163009 0.4484655 0.31417751 0.002281434 0.57643847 0.1710192  
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## [3,] 0.16285129 0.18557257 0.08739250 0.84721115 0.14238667 0.02246215  
## [4,] 0.29469379 0.53844225 0.44552016 0.43849189 0.08390433 0.29757156  
## [5,] 0.04367907 0.85147423 0.96879545 0.86064793 0.09444300 0.64265670  
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## [2,] 0.8483202 0.7176345 0.20886247 0.2439037 0.2308599 0.03344011 0.5271684  
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## [8,] 0.1765495 0.2224435 0.19893159 0.5616534 0.3557576 0.15576119 0.6212685  
## [9,] 0.0795530 0.6949017 0.98486285 0.5753596 0.6732184 0.99683703 0.8888995  
## [10,] 0.3217944 0.6030225 0.88112789 0.2200950 0.1190161 0.23106363 0.2024890  
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## [4,] 0.9675123 0.33934104 0.7915303 0.893472159 0.02768874 0.32262267  
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## [8,] 0.5855664 0.58379895 0.7739088 0.144965343 0.66927095 0.22692197  
## [9,] 0.5437643 0.19634663 0.2919088 0.426626679 0.58733094 0.80005643  
## [10,] 0.3166190 0.71028232 0.6608092 0.339018321 0.45017265 0.09228333  
## [,938] [,939] [,940] [,941] [,942] [,943]  
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## [8,] 0.27990107 0.791224397 0.68743821 0.54672615 0.68379092 0.8939846  
## [9,] 0.81378673 0.372281661 0.11519247 0.61729196 0.68558994 0.9862050  
## [10,] 0.79803420 0.375417366 0.76864514 0.08977989 0.01807826 0.9042529  
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## [6,] 0.3727817 0.08225395 0.4850221 0.2433051 0.98897491 0.8083290 0.52185318  
## [7,] 0.2135979 0.50817324 0.7005740 0.6751643 0.28748621 0.9221066 0.01614363  
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## [10,] 0.1414275 0.07664874 0.5850595 0.9582538 0.10544506 0.6647012 0.82511346  
## [,951] [,952] [,953] [,954] [,955] [,956]  
## [1,] 0.21133083 3.241142e-05 0.7381737 0.66833927 0.7162147 0.62626391  
## [2,] 0.57026615 9.643047e-01 0.7255008 0.20463461 0.8315940 0.23678891  
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## [,957] [,958] [,959] [,960] [,961] [,962]  
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## [3,] 0.4984435 0.32401153 0.24800231 0.534777954 0.7987665 0.09369827  
## [4,] 0.6477902 0.06952080 0.87264453 0.397436391 0.2989405 0.36145326  
## [5,] 0.7969155 0.05301417 0.31565692 0.713580522 0.2524653 0.46789525  
## [6,] 0.1680443 0.16614819 0.64804973 0.121731392 0.5791094 0.41917607  
## [7,] 0.3448288 0.93091468 0.04482877 0.604820410 0.2066140 0.97369905  
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## [9,] 0.2870519 0.63232144 0.88565628 0.008009377 0.5142240 0.64898318  
## [10,] 0.8520545 0.55198307 0.85081000 0.599442095 0.3724458 0.31610946  
## [,963] [,964] [,965] [,966] [,967] [,968]  
## [1,] 0.116959031 0.3960396 0.81282759 0.3123844 0.38957168 0.9943303  
## [2,] 0.323989212 0.2203204 0.87747079 0.8415559 0.03722779 0.1990075  
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## [5,] 0.353785450 0.6181924 0.40276869 0.4710254 0.70123582 0.1198587  
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## [7,] 0.142694278 0.4982140 0.12336634 0.1180116 0.09278918 0.1547533  
## [8,] 0.452154083 0.2593151 0.76584194 0.9542237 0.72486582 0.6537454  
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## [2,] 0.02610563 0.1371988 0.1306523 0.77774617 0.80137379 0.8766607831  
## [3,] 0.28204535 0.8018715 0.2506580 0.82506320 0.85730986 0.5067307379  
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## [5,] 0.31158821 0.1178661 0.9116890 0.25013283 0.78449422 0.3089064443  
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## [7,] 0.34023313 0.8019549 0.3056537 0.12614733 0.33268477 0.3144294915  
## [8,] 0.32916350 0.3441378 0.3497632 0.85211895 0.78881263 0.2570954130  
## [9,] 0.82479981 0.9025663 0.3354552 0.81633657 0.72237619 0.0237247001  
## [10,] 0.63687987 0.2461672 0.3966279 0.77248478 0.96651489 0.4650227665  
## [,975] [,976] [,977] [,978] [,979] [,980] [,981]  
## [1,] 0.4017809 0.3672329 0.57237178 0.48162946 0.07778434 0.5016047 0.38672669  
## [2,] 0.4653357 0.8406626 0.33605079 0.09479056 0.48940171 0.6373245 0.48878289  
## [3,] 0.4674505 0.5245608 0.13178366 0.86591863 0.59562785 0.8736312 0.63972751  
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## [5,] 0.5110509 0.6390126 0.73303109 0.83313094 0.28430687 0.5315462 0.04057025  
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## [1,] 0.22117541 0.5532868 0.7549238 0.7419420 0.56041863 0.3881708 0.78806128  
## [2,] 0.77872264 0.5502261 0.4024335 0.2912272 0.02068163 0.8259879 0.11596391  
## [3,] 0.20230712 0.8890802 0.1139480 0.2348119 0.43136999 0.1052098 0.58241741  
## [4,] 0.68380032 0.5996926 0.9622478 0.9819310 0.48033267 0.2882359 0.49372106  
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## [8,] 0.80515961 0.8512171 0.5790266 0.2996272 0.30504456 0.2575111 0.85645210  
## [9,] 0.59994901 0.3504149 0.5869822 0.8359985 0.40453785 0.9471286 0.34163875  
## [10,] 0.48518734 0.1475954 0.7155673 0.6710219 0.37501696 0.2708013 0.63191738  
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## [1,] 0.18590964 0.009270804 0.18459719 0.87823945 0.02660860 0.73066824  
## [2,] 0.05333657 0.165507837 0.88344727 0.36254997 0.38436378 0.99545259  
## [3,] 0.59682671 0.035768369 0.19632398 0.30522720 0.94970121 0.93880334  
## [4,] 0.62910629 0.418424405 0.03045169 0.95912835 0.73338249 0.58254078  
## [5,] 0.73464544 0.339015472 0.18573134 0.16222423 0.20401442 0.03570577  
## [6,] 0.90855521 0.358373128 0.62500939 0.61249714 0.16598146 0.62089182  
## [7,] 0.16879541 0.175306150 0.24255378 0.23480273 0.04473259 0.75040787  
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## [10,] 0.44901313 0.312413376 0.16345099 0.06563289 0.86593221 0.59358900  
## [,995] [,996] [,997] [,998] [,999] [,1000]  
## [1,] 0.75290246 0.9796922 0.84497667 0.69336144 0.72410936 0.24647767  
## [2,] 0.97929015 0.7531411 0.43008012 0.75560442 0.83738083 0.29196156  
## [3,] 0.35762664 0.4217804 0.59372208 0.82829956 0.77494809 0.28110279  
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## [5,] 0.65864182 0.8558064 0.13977817 0.91303726 0.67871675 0.22768207  
## [6,] 0.04320464 0.2959797 0.42307199 0.02865223 0.50734246 0.07702676  
## [7,] 0.94976988 0.1388202 0.21939440 0.30438713 0.57826506 0.24093001  
## [8,] 0.40621392 0.4624758 0.62753038 0.57862302 0.44775064 0.57287098  
## [9,] 0.12753659 0.4395779 0.34140325 0.96627361 0.57206334 0.29901713  
## [10,] 0.44125711 0.2880912 0.92452436 0.65338659 0.09025083 0.96721616

mColC <- colMeans(C)  
print(mColC)

## [1] 0.4490135 0.5085082 0.5711050 0.4783753 0.5474165 0.5216482 0.4946297  
## [8] 0.4843359 0.4946176 0.5020750 0.5052455 0.2758313 0.4507495 0.5926416  
## [15] 0.6238009 0.4471134 0.4698066 0.3323332 0.5165982 0.5271249 0.5178045  
## [22] 0.4976833 0.3483831 0.4619056 0.3513035 0.4097072 0.5257782 0.6342733  
## [29] 0.5664489 0.5315693 0.4092699 0.3544514 0.5361513 0.5530895 0.4651576  
## [36] 0.5957727 0.4271192 0.4194385 0.5765769 0.5581128 0.4716427 0.5753646  
## [43] 0.5320389 0.5533004 0.4513595 0.4271382 0.5183686 0.4903068 0.4356060  
## [50] 0.5405444 0.3574608 0.4642959 0.5081291 0.6124677 0.4301772 0.6664387  
## [57] 0.5709905 0.4601663 0.4031492 0.4507298 0.6138819 0.5193757 0.4396767  
## [64] 0.5860066 0.4674436 0.6033371 0.5115668 0.3546735 0.4097790 0.4491882  
## [71] 0.5181398 0.3982996 0.3864381 0.5193162 0.5044912 0.4919709 0.3483516  
## [78] 0.3530561 0.6467217 0.4333841 0.3610389 0.6045917 0.5256074 0.6564247  
## [85] 0.3775446 0.4979756 0.3887347 0.5458738 0.4857246 0.5707039 0.5925369  
## [92] 0.6034364 0.5134939 0.3147207 0.4778059 0.4767318 0.5505430 0.4714675  
## [99] 0.4904116 0.3843651 0.4784515 0.4199010 0.5461156 0.5927460 0.4503826  
## [106] 0.5060559 0.4625930 0.5837150 0.4702242 0.6401122 0.5906033 0.5380362  
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## [190] 0.4240105 0.5812449 0.3389527 0.4083488 0.3698206 0.4872931 0.5319641  
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## [582] 0.4077741 0.4157943 0.6274588 0.6463770 0.4175940 0.4517851 0.7597509  
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## [596] 0.7044020 0.3936204 0.6454503 0.4575693 0.4305157 0.3690611 0.4625192  
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## [757] 0.4006716 0.4609463 0.5865028 0.5489691 0.4387471 0.4660559 0.5956963  
## [764] 0.2549878 0.4290356 0.5081444 0.3861392 0.6231711 0.4759131 0.5809064  
## [771] 0.4841338 0.5399289 0.4986319 0.4324256 0.4379514 0.6516012 0.5632498  
## [778] 0.4940302 0.6427125 0.4198361 0.5621634 0.5677921 0.4754702 0.6036106  
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## [792] 0.6215430 0.5435936 0.4598072 0.6299306 0.6562170 0.4071007 0.4240855  
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## [827] 0.5209392 0.4599163 0.4525568 0.5874802 0.6553264 0.4058994 0.5015377  
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## [890] 0.4900160 0.3885946 0.4351212 0.6222592 0.5404638 0.4494678 0.2539741  
## [897] 0.4379385 0.6352266 0.4144141 0.5055093 0.4252205 0.4590637 0.5361123  
## [904] 0.3910695 0.5979985 0.6038423 0.2671889 0.6216656 0.4951800 0.6093026  
## [911] 0.4903244 0.4478081 0.4406847 0.3502170 0.4990816 0.5574523 0.4811666  
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## [932] 0.6579778 0.4853432 0.4897969 0.4250893 0.4027742 0.4767364 0.4641962  
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## [988] 0.4971991 0.4702781 0.3015555 0.2955827 0.4916219 0.3591619 0.6586941  
## [995] 0.4764081 0.5525241 0.4633970 0.6086345 0.6054165 0.4177394

hist(mColC)



## Question 4

**Read the rainfall data from Problem 1 into a vector.**

**Produce a subset of the data where rain is larger than 20.**

R <- rainfallAmount  
R[R > 20]

## [1] 33.8 33.7

**What is the mean rainfall for days where the rainfall was at least 4?**

S <- R[R >= 4]  
mean(S)

## [1] 20.35

**Produce a subset where the rainfall is either exactly 0, or exactly 0.6.**

T <- R[R == 0 | R == 0.6]  
print(T)

## [1] 0.6 0.0